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SOLID PHASE NATIVE CHEMICAL LIGATION OF UNPROTECTED OR N-TERMINAL CYSTEINE PROTECTED PEPTIDES IN AQUEOUS SOLUTION

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ABSTRACT OF THE DISCLOSURE 10

The present invention provides methods, apparatus and kits for synthesizing 11 12 assembled peptides and proteins on a solid phase with sequential ligation of three or more 13 unprotected peptide segments using chemoselective and mild ligation chemistries in aqueous 14 solution. Also provided are methods of monitoring solid phase sequential ligation reactions 15 using MALDI or electrospray ionization mass spectrometry of reaction products.

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